

**From:** [Mullen, Tom](#)  
**To:** [Fuentes, Rene](#)  
**Cc:** [Winiecki, Eric](#); [Baron, Adam](#); [Freeman, Kevin](#); [Sebesta, Lisa](#)  
**Subject:** DOCKET NO. SDWA-10-2013-0080 / Groundwater Monitoring Well Installation Activities - Friday, August 23, 2013 Update  
**Date:** Monday, August 26, 2013 5:11:48 AM

---

Rene,

On Friday, August 23, 2013, Cascade installed and completed YVD-06. A static water level of 111 ft bgs was gauged in the morning following stabilization of the water levels over night. This water level was much higher than the first observed water at about 148 feet. Further, this level is at a depth in which the materials were dry and dusty during drilling indicating that the water bearing zone at this location is under confined conditions. Given the substantial thickness of silt from 116 to 150 feet, the screen was set from 149 to 169 feet in the saturated gravelly sand.

The filter pack was placed to 144 ft, bentonite chips were placed to within 1 ft of ground surface and a flush mount surface completion was installed. Cascade is in the process of demobilizing off site Sunday and Monday. Well development will also commence on Monday, August 26. We expect well development to continue to the end of the week and into the following week some depending on how each well develops. We also expect that groundwater sampling will begin the week of September 9 following development of all the wells.

Please let me know if you have any questions.

Thanks

Tom

**Thomas F. Mullen, PG** | Certified Project Manager / Senior Hydrogeologist | [tom.mullen@arcadis-us.com](mailto:tom.mullen@arcadis-us.com)  
ARCADIS U.S., Inc. | 695 N. Legacy Ridge Drive, Suite 200 | Liberty Lake, WA, 99019  
T. 509.928.3369 | M. 208.755.1094 | F. 509.928.3075  
[www.arcadis-us.com](http://www.arcadis-us.com)  
ARCADIS, Imagine the result

PG / ID, 931 | CA, 6514 | WY, 792  
LG, LHG, LEG / WA, 211

---

NOTICE: This e-mail and any files transmitted with it are the property of ARCADIS U.S., Inc. and its affiliates. All rights, including without limitation copyright, are reserved. The proprietary information contained in this e-mail message, and any files transmitted with it, is intended for the use of the recipient(s) named above. If the reader of this e-mail is not the intended recipient, you are hereby notified that you have received this e-mail in error and that any review, distribution or copying of this e-mail or any files transmitted with it is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete the original message and any files transmitted. The unauthorized use of this e-mail or any files transmitted with it is prohibited and disclaimed by ARCADIS

U.S., Inc. and its affiliates. Nothing herein is intended to constitute the offering or performance of services where otherwise restricted by law.